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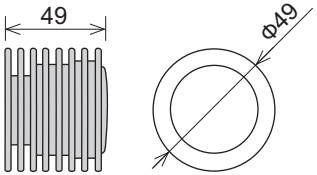
USER MANUAL

LL LED POINT

LL39 500 **LL39 510x**

COMPLIMENTS ON YOUR PURCHASE!

All dimensions are in milimeters



Following items are included:

- **Fitting LL LED POINT** with 1,5 m cable and 6 PIN LINE connector 1 pc.
- User manual 1 pc.

Additional items needed:

- LL LED POINT SPLITTER – must be ordered separately!!!
- LL LED Z-POWER Driver
- DC Power supply 24V
- Mounting accessories LL41 200, LL41 210, LL41 300

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ENVIRONMENT

Do not throw away the appliance with the normal household waste at the end of its life, but hand it in at an official collection point for recycling. By doing this, you help to preserve the environment.

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01 SAFETY INFORMATION

WARNING!!!
Carefully read before installing, powering or servicing.
Nothing to do if anything misunderstand!
Only for professional use!

01.1 Risk of eyes damage

- Do not look directly into LED lamps.
- Do not look into light beam from a distance of less than 40 cm (16 inches)!

01.2 Protection from electric shock

- Shut down power before installation or maintenance.
- Luminaries, Splitters, Driver and recommended power supply must be installed by a qualified professional in accordance with relevant local codes.
  Only acceptable source of AC power and frequency that complies with local buidling and electrical codes to use.
- Do not use or do not connect the products if the power cable, power plug or fixtures are any way damaged, wet, or if they are overheating.
- Do not modify, alter, or attempt to service the LeaderLight appliance.
  Doing so will void the warranty.
- Before removing or installing any cover or part of appliance disconnect it from AC power.

01.3 Fire prevention

- Follow all safety considerations.
- Device never shield – minimum distance around fitting must be 100mm (4 in.).
- LEDs never direct cover with filters or other materials.
- Allowing max. ambient temperature is 40°C (104°F).

02 PRODUCT SPECIFICATION

02.1 Technical Specification

Lamp type:	**OneChip:** RGB 3x1W P5 (Red, Green and Blue) **OneColour:** 1xR/G/B/A/W/N P4 (Red or Green or Blue or White - 6300K or Amber or Neutral White - 3000K)
Lifetime:	Long 60 000 hrs 60% degradation
Optic:	**RGB:** 35mm standard 25°, optional 40° - on request **OneColour:** 35mm standard 25°, optional 10°, 40° - on request
Control data Input:	**RGB:** 3 channels dimming with SPLITTER **OneColour:** 1 channel dimming with SPLITTER
Input power:	6 x LL LED POINT RGB + LL SPLITTER RGB: max. 25W 6 x LL LED POINT OneColour + LL SPLITTER GBWN: max. 8,5W
DC Power Connection:	24V DC 1,5m cable with 6pin LINE connector to SPLITTER
Net weight:	0,2 kg
Dimensions HxΦ:	40mm x 49mm without bracket
IP:	IP43 or IP65 on request
Ambient temp. (Ta):	Maximum 40°C
Cooling:	Conventional
Materials and finish:	Housing: powder-painted anodized aluminium RAL9006 (other colours on request)
Installation:	Any position for ceiling, wall and surface mounting

03 INSTALLATION

03.1 Unpacking

- Unpack carefully.
- This is electronic equipment and should be handled carefully.
- Damaged delivered package or if are any mechanical parts broken – it must be claim immediately by the transport company.
  Photo pictures as evidence are valuable for future claim.

03.2 Physical installation

- Loading capacity of bearing area has to be at least 10 times the weight of all device clusters (luminaries, clamps, cables, ...).
- Heigrbreadth from combustible materials is 0,5m.

03.3 Electrical installation

- **To tackle all Safety Information- 01!**
- You can suffer a dangerous electric shock by using a high voltage AC/DC power supply - by touching the AC/DC power supply wires inside LL LED POINT!
- LL LED POINT must be operated only with LL LED POINT SPLITTER.
- After installing the LL LED Z-POWER DRIVER, which is connected to the device - MW power supply IN:100-260AC/ OUT: 24V you are ready to make the connections from fixtures to LL LED SPLITTER.
- It is not necessary to open fixture before connecting to LL LED SPLITTER.
- Pull the 6PIN LINE cable connector from the fixtures to the LL LED SPLITTER output.
- Wire the Brown, Red, White, Green, Black, Blue wires of each fixture into the connector terminals - see table „Wire colour to connector terminals“.
- LL LED SPLITTER operate with LL LED Z-POWER DRIVER.
- Connection ability - see pictures “Electrical Connections”.

WARNING!!!
LL LED POINT OPERATE ONLY with LL LED POINT SPLITTER!

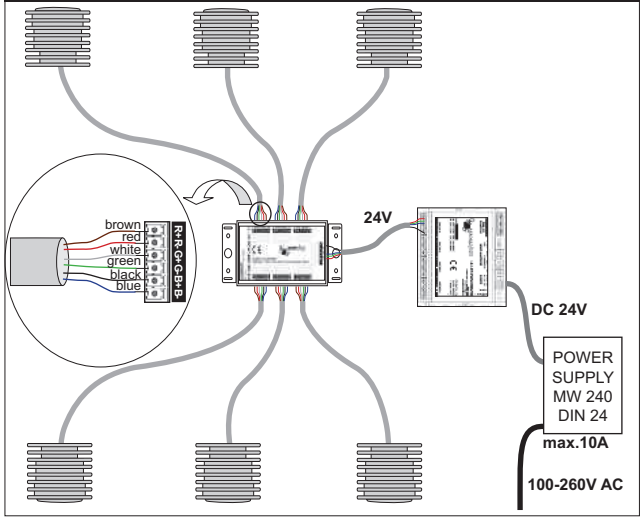
04 MAINTENANCE

- **To tackle all Safety Information- 01!**
- Damage caused by inadequate cleaning or maintenance is not coverd by warranty.
- Regular cleaning is demand (dust, dirt, ...).

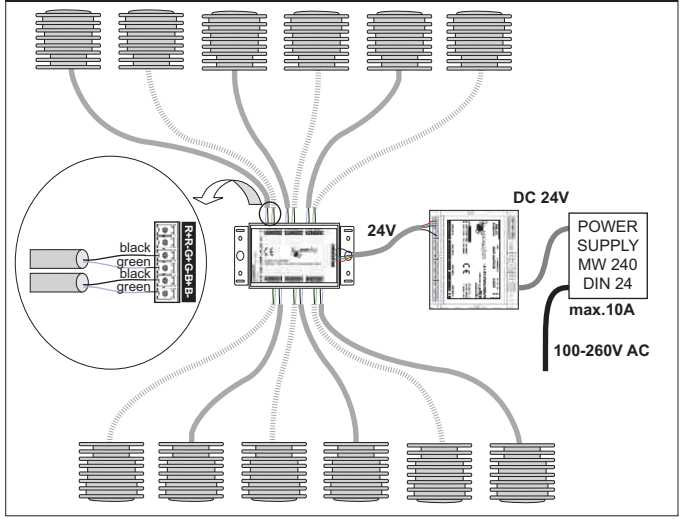
Maintenance policy:
- Unplug mains befor maintenance and at least 10 minutes cool off.
- Cleanup dust from scuttle, diffuser and lens.
- Use vacuum or dampy duster (warm watter).
- Before reinstalling to check failure-free state – no wet parts!

LL LED POINT ELECTRICAL CONNECTIONS with SPLITTER

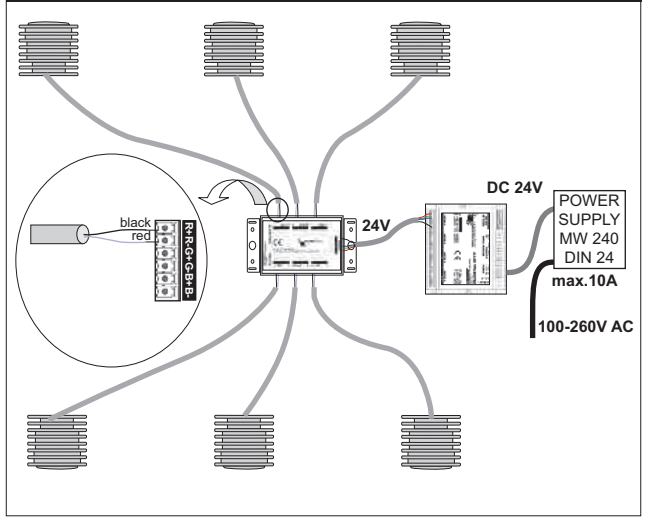
LL LED POINT RGB SPLITTER connection with LL LED POINT RGB/AWB (max. 6 pcs.)



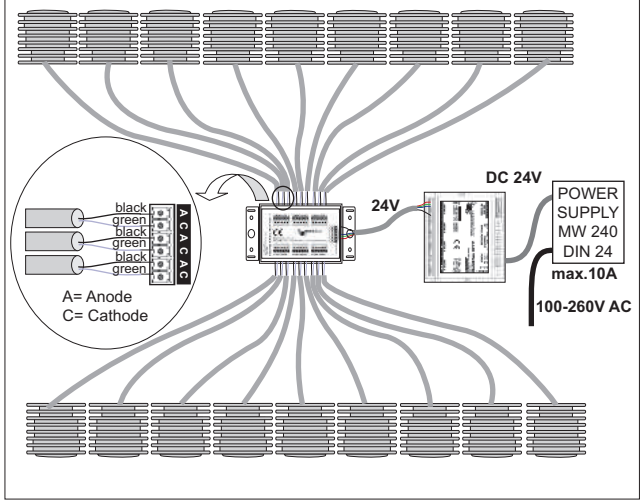
LL LED POINT RGB SPLITTER connection with LL LED POINT G/B/W/N (max. 6x2 pcs.)



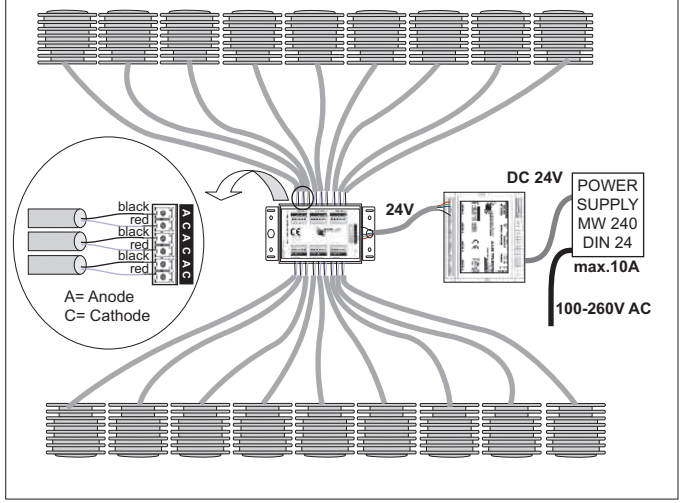
LL LED POINT RGB SPLITTER connection with LL LED POINT R/A (max. 6pcs.)



LL LED POINT G/B/W/N SPLITTER connection only with LL LED POINT G/B/W/N (max. 18pcs.)

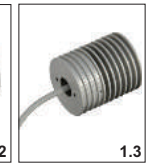


LL LED POINT R/A SPLITTER connection only with LL LED POINT R/A (max. 18pcs.)



MOUNTING ACCESSORIES

Mounting on ceiling and wall is easy using various accessories as seen below.



1.1 Mounting on surface with point bracket LL41 300

1.2 Mounting with surface holder without cable space LL41 200

1.3 Mounting with surface holder with cable space LL41 210

Connection conditions:

- **Each SPLITTER OUT to fitting must be connected**
- Maximal allowed current on SPLITTER OUT is 3x0,35A
- Maximal distance from fixtures to driver is 50m (164 feet) dependence on cable diameter
- Never use more fittings as maximal allowed amound
- LL LED POINT SPLITTER is calculated only fo r LL LED POINT fixtures

Maximal allowed amound of fixtures per SPLITTER

LL LED POINT RGB SPLITTER	
6 pcs.	LL LED POINT OneChip RGB
LL LED POINT G, B, W, N SPLITTER	
6x3 pcs.	LL LED POINT OneColour G/B/W/N
LL LED POINT R, A SPLITTER	
6x3 pcs.	LL LED POINT OneColour R/A

Wire colour to connector terminals

RGB SPLITTER		Connector terminal	SPLITTER G, B, W, N	SPLITTER R, A
Connector terminal	Wire colour		Wire colour	
R+	Brown	A	Black	Black
R-	Red	C	Green (Blue)	Red
G+	White	A	Black	Black
G-	Green	C	Green (Blue)	Red
B+	Black	A	Black	Black
B-	Blue	C	Green (Blue)	Red

Order code	Product name	Current
LL39 500	LL LED POINT OneChip RGB	3x0,35A
LL39 510x	LL LED POINT OneColour	1x0,35A

If you have any question please, contact support@leaderlight.sk